

DC HYBRID BATTERY SYSTEMS

# HS250/500 DC

SMART AND AFFORDABLE LITHIUM SOLAR ENERGY STORAGE SYSTEMS



## BOS LITHIUM (LiFePO<sub>4</sub>) STORAGE SYSTEMS CAN COMBINE LITHIUM AND LEAD ACID BATTERIES: THEY OFFER SUPERB PERFORMANCE AT COMPETITIVE COSTS.

The HS250/HS500 DC hybrid systems from BOS-AG combine lithium and lead acid battery charge regulation in one system. They come with integrated lithium (LiFePO<sub>4</sub>) batteries in different sizes. Built into an IP65 protected housing or an eye-catching cube design enclosure, the systems offer

superb lithium like performance, combined with cheap lead acid backup capacity. The HS250/HS500 DC systems can upgrade any existing lead acid system by simply replacing the old charge regulator. This improves system performance and decreases power costs immediately.

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#### MAIN TECHNICAL DATA

#### HS250

#### HS500 DC

Nominal system voltage	12 V DC	24 V DC
System voltage range	10 – 15 V DC	10 – 30 V DC
Integrated lithium battery capacity	328 Wh	2x 328 Wh
Recommended lead acid capacity (not included but necessary)	100 – 200 Ah (outside of enclosure)	100 Ah @ 24 V (inside cube)
Hybrid system capacity (total)	1800 – 3000 Wh	
Lithium/Lead acid capacity ratio	Recommended 1/3	
Nominal system power	250W DC	250W DC @12 V 500W DC @24 V
Load outlets	12 V	12 V/24 V
Solar charging type	Pulse Wide Modulation (PWM)	PWM (MPPT optional)
Max. PV open circuit voltage	25 V	50 V
Max. charge current from PV	20 A	
Max output load current	20 A	
System efficiency	>85 %	
Style of housing	IP65 water and dust proof	Cube enclosure or industrial enclosure
Housing dimensions	420x330x140 mm	600x620x340 mm (cube) or 800x600x400 mm (industrial)
Max wire size	16 mm <sup>2</sup>	
Weight	7 kg	15 - 25 kg
Ambient temperature	0 – 50 °C maximum battery life at 15 – 25 °C	
Features	Integrated display, Lithium balancing, Priority DC output, Datalogging, GSM / PAY G compatible/ overcurrent, Short-circuit, Deep-discharge, Wrong-polarity protection, Integrated USB charging port	

DATASHEET IS SUBJECT TO CHANGE. REVISION MAY 2018.

NOTE: Changes to the product as well as to above listed specifications might apply at any time without notice. Please contact [contact@bos-ag.com](mailto:contact@bos-ag.com) for details.

